

EVANS & SUTHERLAND

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Evans & Sutherland is pleased to provide you with this 1982 calendar. The pictures have been taken directly from the screens of various computer graphics systems, and represent a cross section of our users' applications and technology. We are grateful to those who contributed and also to those whose contributions could not be used because of space limitations.

EVANS & SUTHERLAND

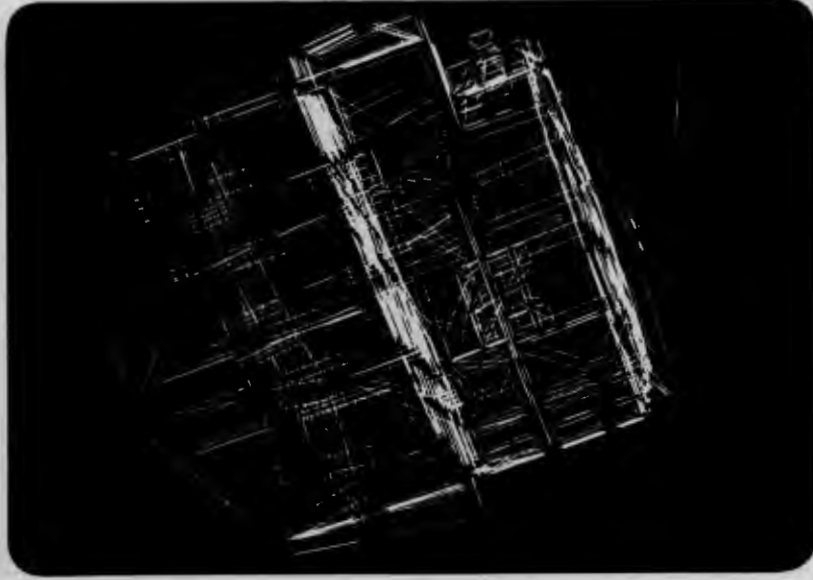
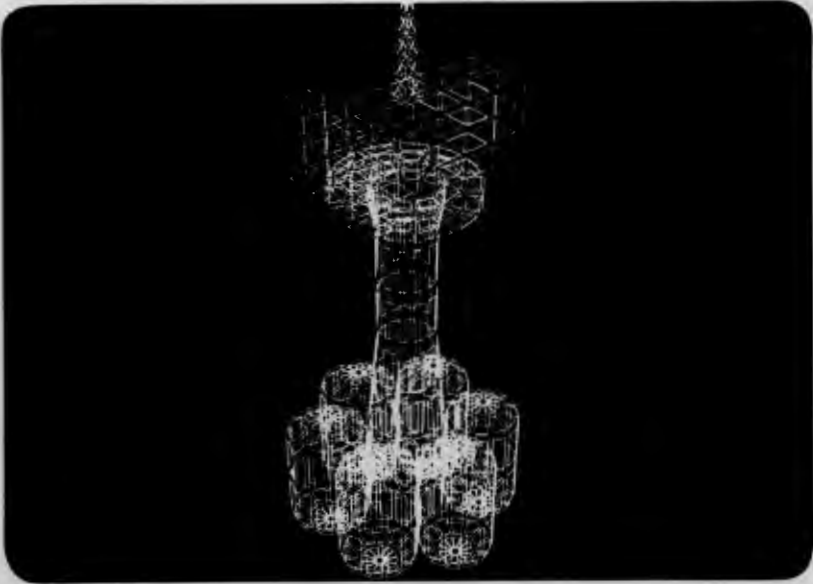
580 ARAPEEN DRIVE • P.O. BOX 8700 • SALT LAKE CITY, UTAH 84108 • TELEPHONE: (801) 582-5847 • TELEX: 389492 • TWX: 910-925-5818



EVANS & SUTHERLAND-REDIFFUSION CT5 SYSTEM. These F-16 aircraft in formation flight were photographed directly from the CT5 system. CT5 is setting new standards for image quality and scene capacity in real-time flight simulation.

dec. 1981

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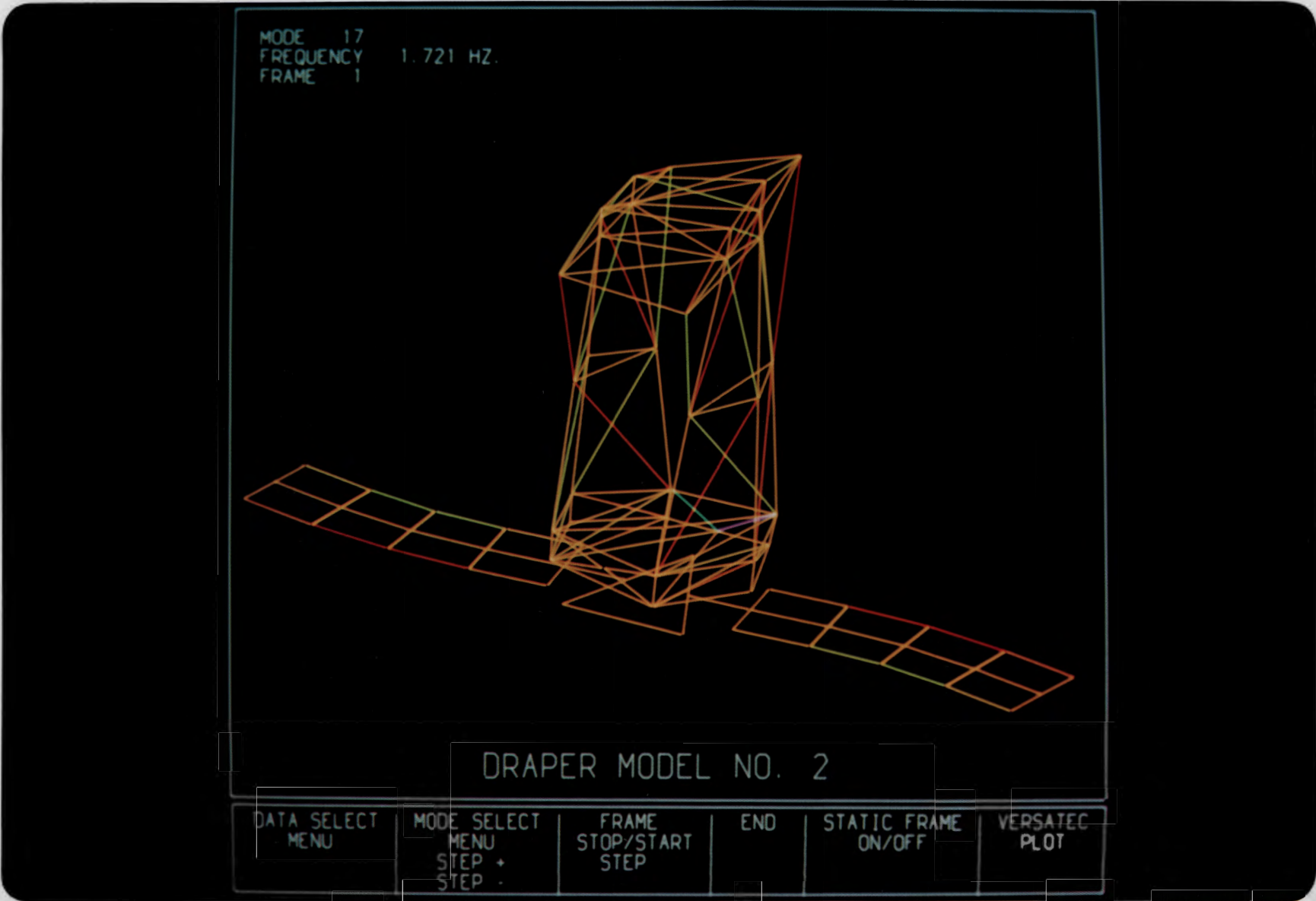
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CHARLES STARK DRAPER LABORATORY. Design and analysis associated with real time control of Large Space Structures (LSS). The full spectrum color capability of the Multi Picture System is used to show stress of individual structural members. The final product is the actual active structural vibration control system hardware. The Multi Picture System is also used for flight simulation and power plant simulation.

feb. 1982

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NOVOVIEW SP2-REDIFFUSION SIMULATION. Computer generated imagery as seen from the flight deck of an E3A (AWACS) simulator. Rediffusion has sold more than 230 NOVOVIEW systems to 56 customers in 30 countries.

mar. 1982

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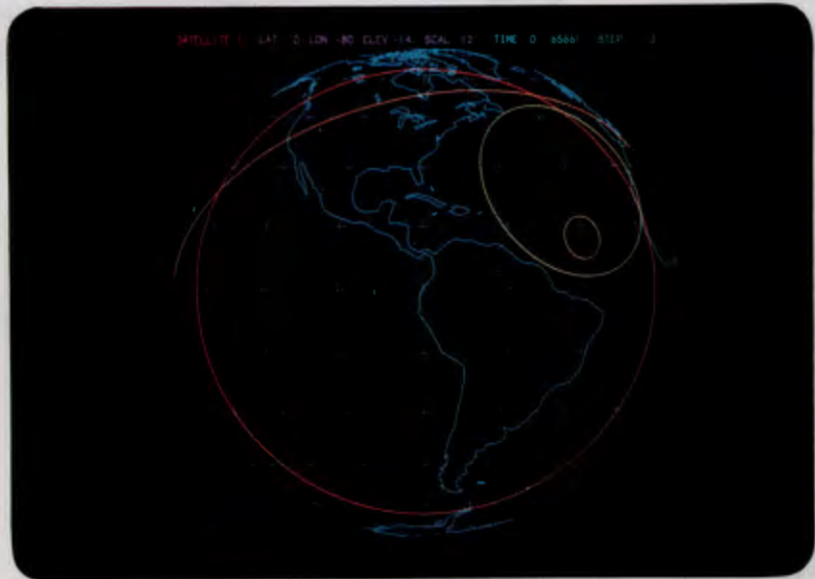
EVANS & SUTHERLAND



TIME TRAVEL is performed with the **DIGISTAR** digital planetarium projection system and is demonstrated by showing the proper motion and radial velocity of stars. The space velocity of each star is represented using a vector with a star at the bright end and its beginning point at the dim end. Using the **DIGISTAR** to travel forward in time, the illustrations show: 1. current date; 2. 32,000 years into the future; 3. 87,000 years into the future; and 4. 1,000,000 years into the future.

apr. 1982

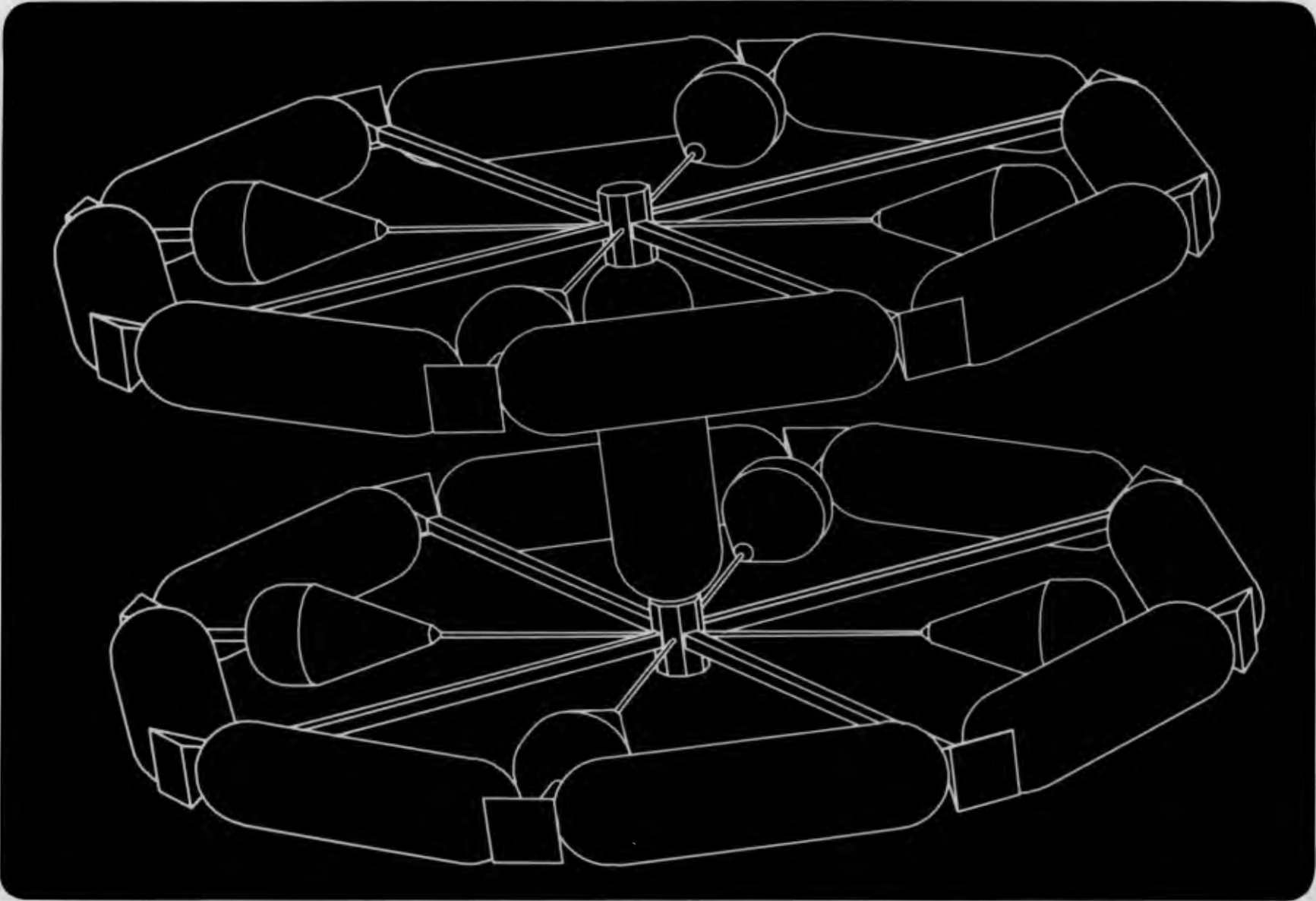
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BOEING AEROSPACE COMPANY. A real-time, interactive, animated astrodynamics simulation on the color Multi Picture System done at the Boeing Aerospace Company by Peter W. Baker and Victor H. Leonard. **Figure 1.** shows an orthographic view of the earth with several satellites and their orbits. **Figure 2.** the same as Figure 1 except that the perspective viewing angle and magnification factor have been interactively modified by the operator. **Figure 3.** the viewing angle and magnification factor have been driven by the viewpoint of satellite 1 as it orbits the Earth. The local horizon of satellite 1 (centered on the Earth view) and its relation to the local horizons of various other satellites is shown. **Figure 4.** shows the local horizon of satellite 2 as it approaches the south polar region.

may 1982

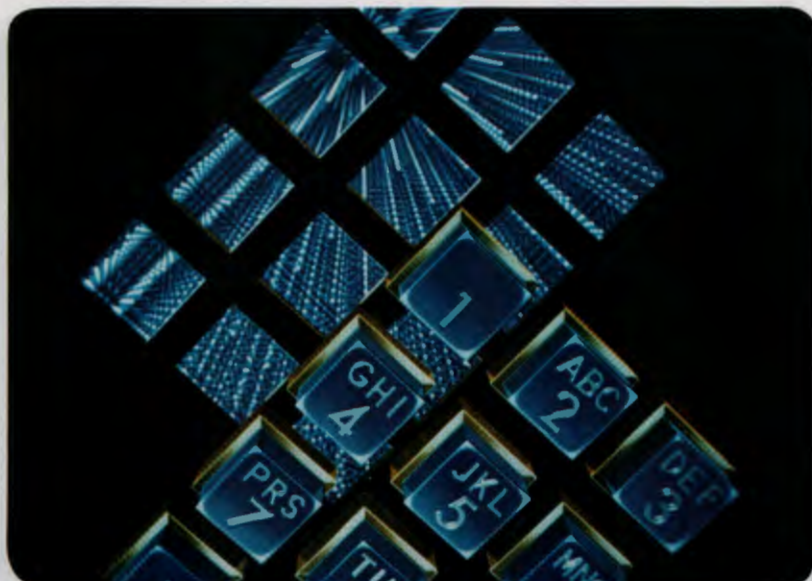
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GRUMMAN DATA SYSTEMS CORPORATION. The Graphics Development Lab in Grumman is using ROMULUS, a 3-D solid modeling system, to portray a hypothetical space manufacturing facility. The station was designed to use empty external tanks of the space shuttle which are now jettisoned back to Earth. The facility, measuring 280 feet in diameter, would provide a zero gravity environment at the hub and a .2 Earth gravity environment in the peripheral tanks.

june 1982

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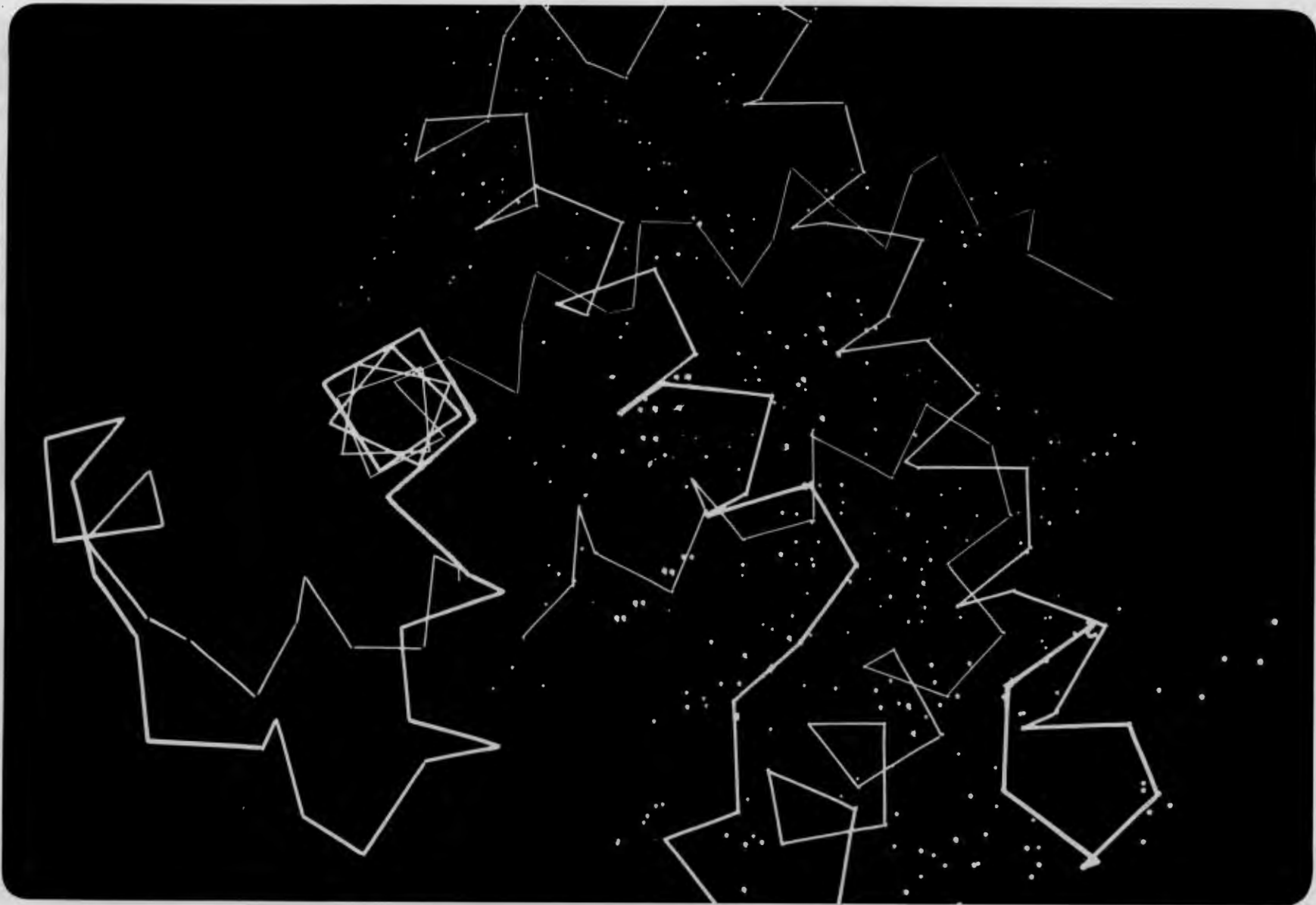
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EVANS & SUTHERLAND CT5 SYSTEM. These scenes from CT5 illustrate the potential application of visual simulation in automotive engineering.

aug. 1982

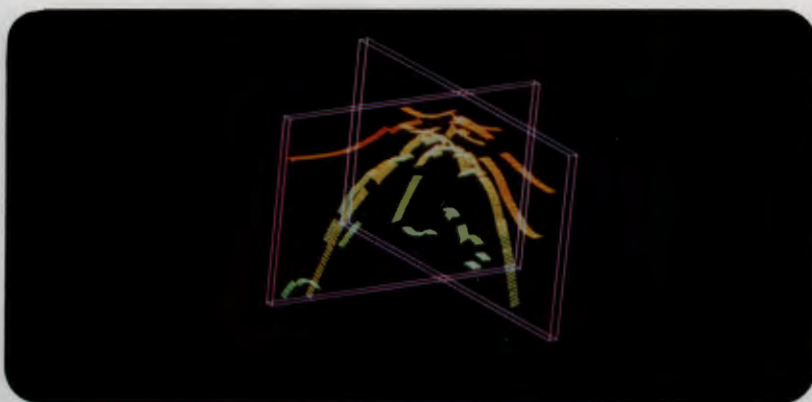
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HERSHEY MEDICAL CENTER. Automatic recognition of domains in globular proteins. Shown is the helical muscle protein myoglobin. The solid line connects sequential α -carbon atoms in the backbone and the points represent side-chain atoms in domain 2. Depth cueing is indicated by display intensity which diminishes with increasing distance from the eye. In the lower right portion of the picture, the viewer is staring up the long axis of the B helix, oriented with its C-terminal end closer to the eye. Small numerals mark the C-terminal residues of domains 1 and 2. Courtesy of George Rose and Lyndon Hibbard, Department of Biological Chemistry, Hershey Medical Center of the Pennsylvania State University.

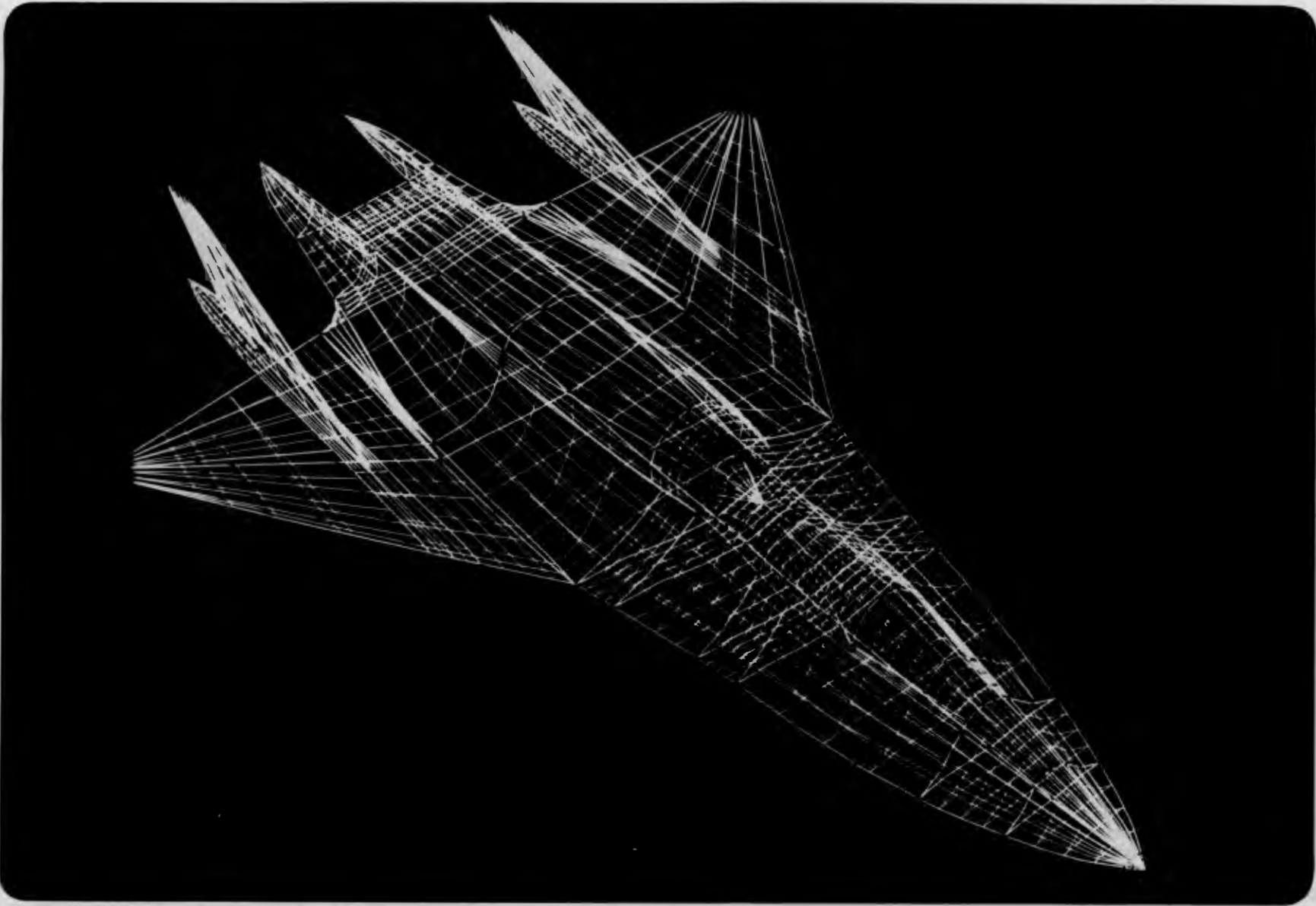
sept. 1982

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oct. 1982

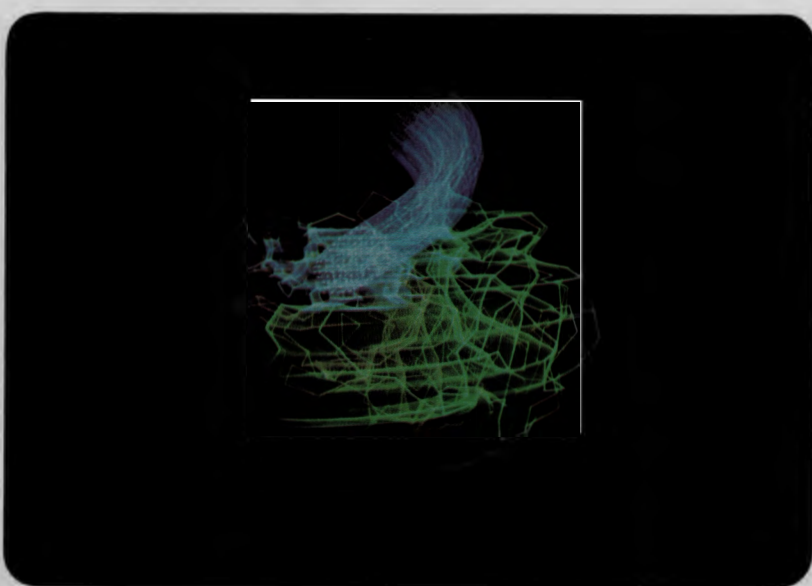
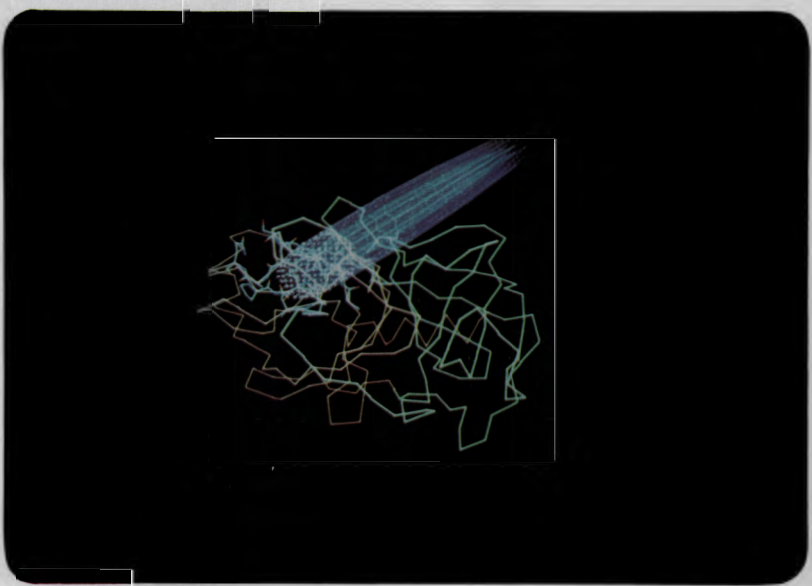
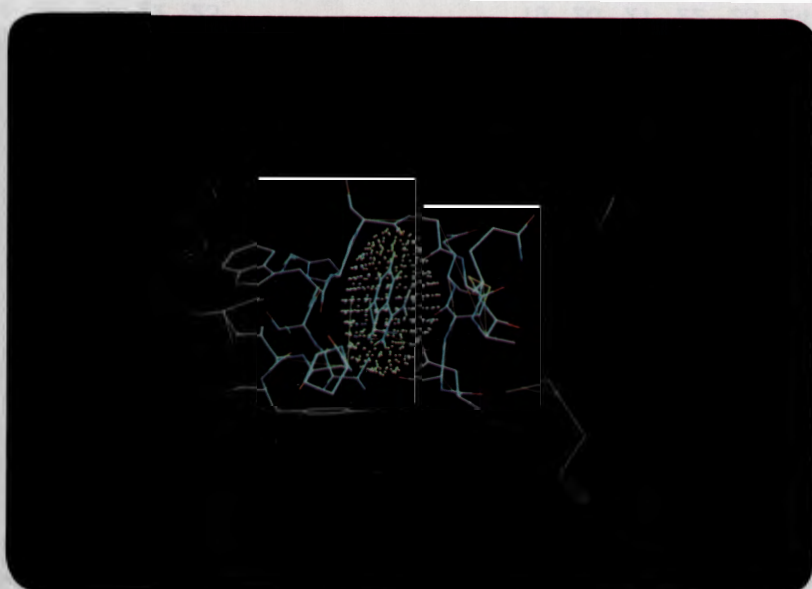
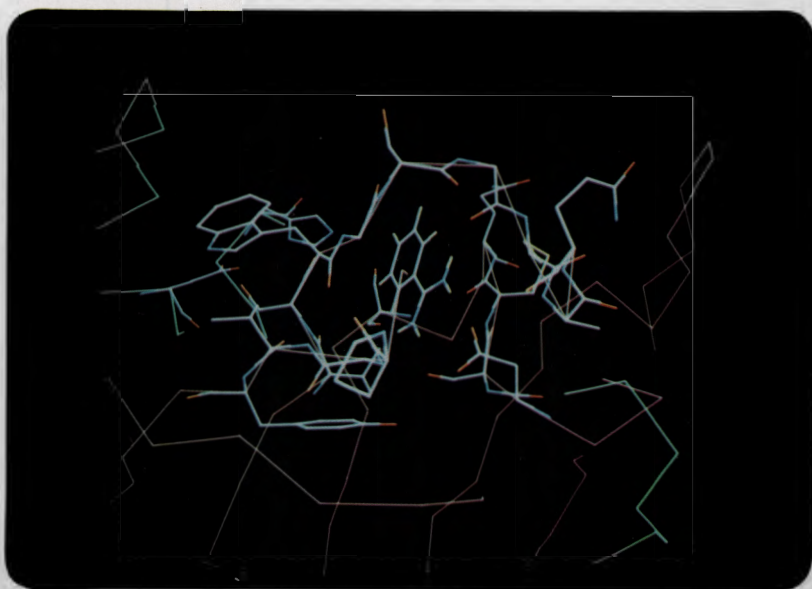
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GRUMMAN AEROSPACE, ADVANCED AIRCRAFT SYSTEMS. An advanced vehicle conceptual design using 3-D modeling on an Evans & Sutherland PS 300.

nov. 1982

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Christmas

jan. 1983

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TUESDAY

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FRIDAY

SATURDAY

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